

2D11

12/13

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

08-50

SEARCH REQUEST FORM

Requestor's Name: Mark Clardy Serial Number: 08/911,926
Date: 8/13/98 Phone: 308-4550 Art Unit: 1616

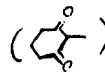
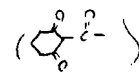
Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

Herbicidal compositions comprising:

1) Dinethenamid

2) Triketone or Dione Herbicides — as listed in attached, highlighted box.



2stres

17:32

17:26

17:25

17:26

17:28

34

9:19

8:57

8:51-11

8/13/98
2197.86
89.52
181.02
235.25
1.32
1.35
3.72
707.9

STAFF USE ONLY

Date completed: 8/11
Searcher: Wang 4258
Terminal time: 34
Elapsed time: _____
CPU time: _____
Total time: _____
Number of Searches: _____
Number of Databases: _____

Search Site
☐ STIC
☐ CM-1
☐ Pre-S
Type of Search
☐ N.A. Sequence
☐ A.A. Sequence
☐ Structure
☐ Bibliographic

Vendors
☒ IG
☐ STN
☐ Dialog
☐ APS
☐ Geninfo
☐ SDC
☐ DARC/Questel
☐ Other

rec'd
8/14

claudy
911926

Stereochemical name changes have been adopted and appear in CN's beginning 6/29/30. See the online news message for details.

=> s (triketone or dione)/cn

0 TRIKETONE/CN
0 DIONE/CN
L161 0 (TRIKETONE OR DIONE)/CN

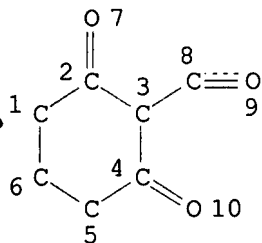
=> dis his l162-

(FILE 'REGISTRY' ENTERED AT 17:26:42 ON 10 AUG 1998)

L162 STR
L163 50 S L162
L164 STR
L165 50 S L162 OR L164
L166 11253 S L162 OR L164 FUL
L167 11253 S L166 OR L166

=> d l166 que stat;s l167 range=(60514-41-2,)

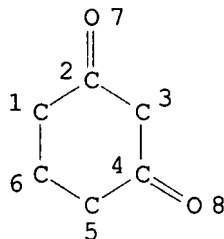
L162 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE
L164 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

=> fil caplus,.biotech,wpids,uspatful

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.72	5.07

FILE 'CAPLUS' ENTERED AT 08:51:47 ON 11 AUG 1998
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=> s (l1 or dimethenamid) and (l5 or l9 or triketone or dione)

L10 10 FILE CAPLUS
L11 0 FILE BIOSIS
L12 0 FILE MEDLINE
L13 0 FILE EMBASE

COMBINATION OF STRUCTURE AND TEXT TERMS NOT VALID

The query entered contains both search terms created by structure-building or screen commands and text search terms. L#s created via the STRUCTURE or SCREEN commands must be searched in the structures files separately from text terms or profiles. The L# answer sets from structure searches can be used in crossover searches and can be combined with text terms.

=> d 1-10 cbib abs

L13 HAS NO ANSWERS

'CBIB ABS' IS NOT A VALID STRUCTURE FORMAT KEYWORD

Structure Formats

SIA ----- Structure Image, Attributes, and map table if it contains data. (Default)

SIM ----- Structure Image.

SAT ----- Structure ATtributes and map table if it contains data.

SCT ----- Structure Connection Table and map table if it contains data.

SDA ----- All Structure Data (image, attributes, connection table and map table if it contains data).

NOS ----- NO Structure data.

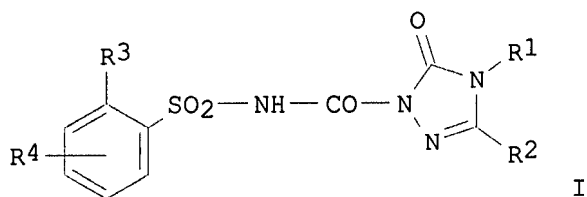
ENTER STRUCTURE FORMAT (SIA), SCT, SDA, SIM, SAT, NOS:end

=> d 1-10 cbib abs l10

L10 ANSWER 1 OF 10 CAPLUS COPYRIGHT 1998 ACS
1998:208580 Document No. 128:240724 Synergistic selective herbicides

based on arylsulfonylaminocarbonyltriazolinones. Dahmen, Peter; Feucht, Dieter; Mueller, Klaus-Helmut; Santel, Hans-Joachim (Bayer A.-G., Germany). Ger. Offen. DE 19638887 A1 980326, 14 pp. (German). CODEN: GWXXBX. APPLICATION: DE 96-19638887 960923.

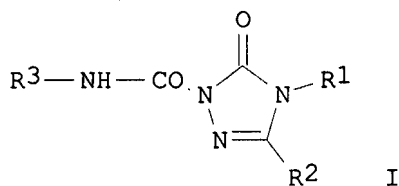
GI



AB Synergistic selective herbicides comprise arylsulfonylaminocarbonyltriazolinones I [R1 = H, OH, amino, alkylidenamino, etc.; R2 = H, OH, mercapto, amino, cyano, halo, (un)substituted alkyl, alkoxy, etc.; R3, R4 = NO2, cyano, halo, (un)substituted alkyl, alkylcarbonyl, alkoxy, etc.] mixed with any of a very large no. of known herbicides, such as acetochlor, alachlor, aclonifen, amidosulfuron, atrazine, benazolin, benzoylprop-Et, bentazon, bifenox, bromobutide, bromofenoxim, bromoxynil, butachlor, butylate, carfentrarzone-Et, etc.

L10 ANSWER 2 OF 10 CAPLUS COPYRIGHT 1998 ACS
1998:165527 Document No. 128:227319 Selective synergistic herbicidal compositions based on carbamoyltriazolinones. Dahmen, Peter; Thielert, Wolfgang; Mueller, Klaus-Helmut; Riebel, Hans-Jochem (Bayer A.-G., Germany). Ger. Offen. DE 19635060 A1 980305, 12 pp. (German). CODEN: GWXXBX. APPLICATION: DE 96-19635060 960830.

GI



AB Selective synergistic herbicidal compns. comprise a carbamoyltriazolinone I [R1 = H, OH, amino, (un)substituted alkyl, alkenyl, alkynyl, etc.; R2 = (un)substituted alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, etc.; R3 = (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, arylalkyl, arylalkenyl; or arylalkynyl] and a known herbicide, such as acetochlor, aclonifen, alachlor, amidosulfuron, atrazin, benzoylprop-Et, bentazon, bifenox, bromobutide, etc.

L10 ANSWER 3 OF 10 CAPLUS COPYRIGHT 1998 ACS
1997:594605 Document No. 127:216385 Synergistic herbicidal composition based on glyphosate esters. Riebel, Hans-Jochem; Priesnitz, Uwe; Wieschollek, Raphael; Dollinger, Markus; Wetcholowsky, Ingo (Bayer A.-G., Germany; Riebel, Hans-Jochem; Priesnitz, Uwe; Wieschollek, Raphael; Dollinger, Markus; Wetcholowsky, Ingo). PCT Int. Appl. WO

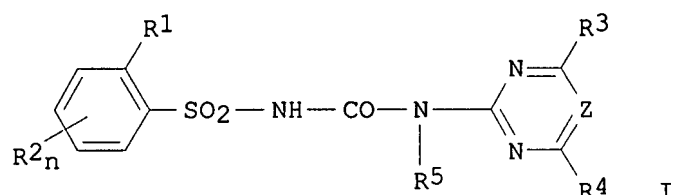
9731535 A1 970904, 27 pp. DESIGNATED STATES: W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, IL, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (German). CODEN: PIXXD2. APPLICATION: WO 97-EP732 970217. PRIORITY: DE 96-19607633 960229.

AB A synergistic combination of a glyphosate ester or acid adduct of an ester, and at least one compd. prior art herbicide, is given. The pure glyphosate ester or acid adduct of an ester is added to spray formulations of the 2nd herbicide.

L10 ANSWER 4 OF 10 CAPLUS COPYRIGHT 1998 ACS

1997:281141 Document No. 126:260438 Synergistic herbicidal mixtures. Landes, Max; Sievernich, Bernd; Walter, Helmut; Westphalen, Karl-Otto; Mayer, Horst; Mulder, Christian; Schoenhammer, Alfons; Hamprecht, Gerhard; Nuyken, Wessel; Kibler, Elmar; Haden, Egon (BASF A.-G., Germany). Ger. Offen. DE 19534910 A1 970327, 42316 pp. (German). CODEN: GWXXBX. APPLICATION: DE 95-19534910 950920.

GI



AB The title mixts. comprise a sulfonylurea deriv. I [R1 = (ub)substituted alkyl, halo, etc.; R2 = H, alkyl, alkenyl, alkynyl, etc.; R3 = F, CF3, CF2Cl, etc.; R4 = alkoxy, alkyl, alkylthio, alkylamino, etc.; R5 = H, alkoxy, alkyl; Z = N or CH; n = 0, 1-3] and any of a large no. of known herbicides, such as buthidazole, cyprazole, allidochlor, benzoylprop-Et, bromobutide, chlorthiamid, dimepiperate, dimethenamide, etc.

L10 ANSWER 5 OF 10 CAPLUS COPYRIGHT 1998 ACS

1996:440983 Document No. 125:79415 Synergistic selective herbicidal compositions comprising a heteroaryloxyacetamide. Dahmen, Peter; Deege, Rolf; Foerster, Heinz; Riebel, Hans-Jochem; Jansen, Johannes R. (Bayer A.-G., Germany). Ger. Offen. DE 19546751 A1 960627, 16 pp. (German). CODEN: GWXXBX. APPLICATION: DE 95-19546751 951214. PRIORITY: DE 94-4446341 941223.

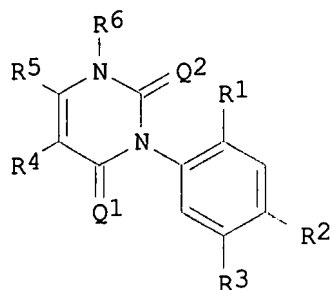
AB Synergistic herbicidal compns. comprise a heteroaryloxyacetamide HetOCH2CONArCHMe2 [Het=(un)substituted thiadiazolyl; Ar=(un)substituted Ph] and any of a large no. of known herbicides, such as clopyrasulfuron, **dimethenamid**, metazachlor, rimsulfuron, bentazon, bromoxynil, dicamba, 2,4-D, pyridate, fluroxypyr, metosulam, prosulfuron, KIH-9201, sulcotrione, etc., and/or known safeners, such as oxabetrinil, cyometrinil, fluxofenim, fenclorim, benoxacor, etc.

L10 ANSWER 6 OF 10 CAPLUS COPYRIGHT 1998 ACS

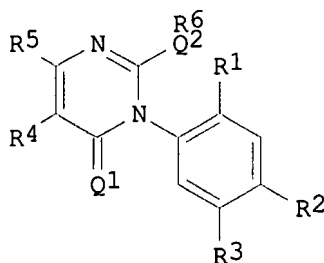
1996:353166 Document No. 125:28286 Synergistic herbicides containing 1-(2,6-dichloro-4-difluoromethylphenyl)-5-(2-chloropropionamido)-4-nitropyrazole. Dahmen, Peter; Dollinger, Markus; Schallner, Otto

- (Bayer A.-G., Germany). Ger. Offen. DE 4435476 A1 960411, 11 pp. (German). CODEN: GWXXBX. APPLICATION: DE 94-4435476 941004.
- AB Compns. contg. 1-(2,6-dichloro-4-difluoromethylphenyl)-5-(2-chloropropionamido)-4-nitropyrazole in combination with known com. compds. from classes such as carbamoyltriazolinones, alkylanilines, carbamic acids and esters, carbamic acid amides and imides, diazin(on)es or triazin(on)es, ureas, nitriles, thiocarbamates, etc., are selective, synergistic herbicides.
- L10 ANSWER 7 OF 10 CAPLUS COPYRIGHT 1998 ACS
1996:212336 Document No. 124:253342 Synergistic herbicidal mixtures comprising aryluracil derivatives.. Santel, Hans-Joachim; Dollinger, Markus; Andree, Roland; Drewes, Mark Wilhelm (Bayer A.-G., Germany). Ger. Offen. DE 4431219 A1 960307, 17 pp. (German). CODEN: GWXXBX. APPLICATION: DE 94-4431219 940902.

GI



I



II

- AB The title mixts. comprise an aryluracil deriv. [I or II Q1,Q2=O or S; R1=H or halo; R2=halo or CN; R3=A1A2A3; A1,A2=bond,O,S,SO,CO,etc.; R4=H,OH,SH,NH2,etc.; R5=H,halo or (un)substituted alkyl; R6=H,OH,NH2,etc.] and any from a very large no. of compds. such as heteroaryloxyacetamides, carbamoyltriazolinones, alkylanilines (pendimethalin, trifluralin), carboxylic acids (clopyralid, 2,4-D, dicamba, etc.) and carboxylic acid amides (metolachlor, acetochlor, alachlor, etc.).
- L10 ANSWER 8 OF 10 CAPLUS COPYRIGHT 1998 ACS
1994:648646 Document No. 121:248646 Synergistic herbicidal compositions containing **dimethenamid** mixtures. Fenderson, John Melvin; O'Neal, William ben; Quaghebeur, Theo; Schumm, Karl-Christof; Van Loocke, Walter (Sandoz Ltd., Switz.; Sandoz-Patent-GmbH; Sandoz-Erfindungen Verwaltungsgesellschaft M.B.H.). Eur. Pat. Appl. EP 614606 A2 940914, 11 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GR, IT, LI, NL, PT. (English). CODEN: EPXXDW. APPLICATION: EP 94-810081 940215. PRIORITY: US 93-19386 930218; US 93-19933 930219; GB 93-13210 930625.
- AB Co-application of **dimethenamid** with other herbicides provides synergistic herbicidal activity.

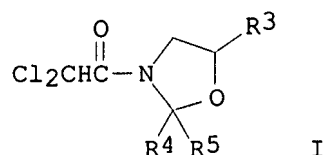
- L10 ANSWER 9 OF 10 CAPLUS COPYRIGHT 1998 ACS
1993:96275 Document No. 118:96275 Antidotes reducing pesticidal interactions with herbicides in crops. Bussler, Brett Hayden; Hakes, Harrison Ross; Mayonado, David James (Monsanto Co., USA). PCT Int. Appl. WO 9211761 A1 920723, 331 pp. DESIGNATED STATES: W: AU, BG, BR, CA, CS, FI, HU, JP, KR, PL, RO, RU, US; RW: AT, BE, CH,

DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE. (English). CODEN: PIXXD2. APPLICATION: WO 91-US9783 911230. PRIORITY: US 90-636360 901231; US 91-808590 911220.

AB The neg. synergism in crops induced by the interaction of an herbicide, such as micosulfuron, primisulfuron, or NC-319, with an insecticide (phorate, terbufos, chlorpyrifos, etc.), fungicide, or nematocide is suppressed by an antidote, such as dichlormid, R 29148, or AD 67. Injury to corn from the joint application of 0.23 kg Counter/305-m furrow and 0.14 kg NC-319/ha was almost totally suppressed by MON-13900 [3-dichloroacetyl)-2,2-dimethyl-5-(2-furanyl)oxazolidine] (0.14 kg/ha).

L10 ANSWER 10 OF 10 CAPLUS COPYRIGHT 1998 ACS
1992:442741 Document No. 117:42741 Safening herbicidal benzoic acid derivatives with dichloroacetic acid amides. Miller, Knudt John; Bussler, Brett Hayden (Monsanto Co., USA). Eur. Pat. Appl. EP 480902 A1 920415, 71 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 91-870160 911009. PRIORITY: US 90-596453 901012.

GI



AB Dichloroacetamides and related compds. RCONR1R2 (R = haloalkyl, haloalkenyl, etc.; R1, R2 = H, alkyl, alkenyl, alkynyl, etc.; NR1R2 = heterocyclyl) and the oxazolidine derivs. I (R3 = H, alkyl, haloalkyl, etc.; R4, R5 = H, haloalkyl, Ph, heterocyclyl, etc.) are antidotes for known benzoate herbicides and optionally to known haloacetamide coherbicides. Soil-incorporated dicamba (1.12 kg/ha) totally controlled velvetleaf, but was phytotoxic to corn. No damage to corn was shown, however, when 1,4-bis(dichloroacetyl)piperazine (0.28 kg/ha) was applied in-furrow concomitantly.

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	707.00	712.07
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-5.15	-5.15

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STRUCTURE FILE UPDATES: 8 AUG 98 HIGHEST RN 209663-12-7
DICTIONARY FILE UPDATES: 10 AUG 98 HIGHEST RN 209663-12-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 14, 1998

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Stereochemical name changes have been adopted and appear in CN's beginning 6/29/30. See the online news message for details.

=> s sulcotrione/cn or mikado/cn

```

          1 SULCOTRIONE/CN
          1 MIKADO/CN
L14       1 SULCOTRIONE/CN OR MIKADO/CN
```

=> e "2-(2-chloro-4-methanesulfonylbenzoyl)-1,3-cyclohexane"/cn

```

E1         1      2-(2-CHLORO-4-(METHYLPHENYLAMINO)BENZOYL)BENZOIC ACID/
              CN
E2         1      2-(2-CHLORO-4-HYDROXYPHENYLHYDRAZONO)ACETOACETIC ACID/
              CN
E3         0 --> 2-(2-CHLORO-4-METHANESULFONYLBENZOYL)-1,3-CYCLOHEXANE/
              CN
E4         1      2-(2-CHLORO-4-METHYLPHENYLAMINO)IMIDAZOLINE NITRATE/CN
E5         1      2-(2-CHLORO-4-METHYLSULFONYLBENZOYL)-5-(1-METHYLTHIOCY
              CLOPPROPYL)-1,3-CYCLOHEXANEDIONE/CN
E6         1      2-(2-CHLORO-4-METHYLTHIEN-3-YLAMINO)IMIDAZOLINE HYDROC
              HLORIDE/CN
E7         1      2-(2-CHLORO-4-NITROPHENYL)-1-FORMYLHYDRAZINE/CN
E8         1      2-(2-CHLORO-4-NITROPHENYL)ETHANOL/CN
E9         1      2-(2-CHLORO-4-NITROPHENYLAZO)-5-METHOXY-P-TOLUENEDIAZO
              NIUM CHLORIDE/CN
E10        1      2-(2-CHLORO-4-SULFAMOYLPHENOXY)BUTYRIC ACID/CN
E11        1      2-(2-CHLORO-4-SULFAMOYLPHENOXY)PROPIONIC ACID/CN
E12        1      2-(2-CHLORO-4-THIAZOLYL)BENZIMIDAZOLE/CN
```

=> s ?cyclohexane?/cns

```

L15       145533 ?CYCLOHEXANE?/CNS
```

=> s l15 or l15

```

L16       145533 L15 OR L15
```

=> s l15(1)"1,3"/cn

```

          0 "1,3"/CN
L17       0 L15(L)"1,3"/CN
```

=> s l15(1)"1,3"

```

          1098113 "1,3"
L18       29928 L15(L)"1,3"
```

=> s l18 or l18

```

L19       29928 L18 OR L18
```

=> d 9000 18000 27000 rn

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L19  ANSWER 9000 OF 29928  REGISTRY  COPYRIGHT 1998 ACS
RN   143454-68-6  REGISTRY
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L19 ANSWER 18000 OF 29928 REGISTRY COPYRIGHT 1998 ACS
RN 99834-62-5 REGISTRY

L19 ANSWER 27000 OF 29928 REGISTRY COPYRIGHT 1998 ACS
RN 42286-72-6 REGISTRY

=> s 118 range=(143454-68-6,)

296675 "1,3"
L20 9000 L15(L) "1,3"

=> s 118 range=(99834-62-5,143454-68-6)

310294 "1,3"
L21 9001 L15(L) "1,3"

=> s 118 range=(42286-72-6,99834-62-5)

360239 "1,3"
L22 9001 L15(L) "1,3"

=> s 118 range=(,42286-72-6)

130908 "1,3"
L23 2929 L15(L) "1,3"

=> s ?bicyclo(3,2,1)octane-2,4-dione?/cns

MISSING OPERATOR '?BICYCLO(3,2,1'

=> s ?"bicyclo(3,2,1)octane-2,4-dione"?/cns

452711 ?"BICYCLO"/CNS
18 "3,2,1"/CNS
63704 "OCTANE"/CNS
677448 "2,4"/CNS
292411 "DIONE"?/CNS
L24 0 ?"BICYCLO(3,2,1)OCTANE-2,4-DIONE"?/CNS
(("BICYCLO" (W) "3,2,1" (W) "OCTANE" (W) "2,4" (W) "DIONE"?) /CN
S)

=> s "bicyclo(3,2,1)octane-2,4-dione"?/cn

L25 0 "BICYCLO(3,2,1)OCTANE-2,4-DIONE"?/CN

=> s bicyclo(1)"(3,2,1)"(1)octane-2,4-dione

462341 BICYCLO
18 "(3,2,1)"
("3,2,1")
84042 OCTANE
677444 2,4
526172 DIONE
1 DIONES
526172 DIONE
(DIONE OR DIONES)
333 OCTANE-2,4-DIONE
(OCTANE (W) 2,4 (W) DIONE)
L26 0 BICYCLO(L) "(3,2,1)" (L) OCTANE-2,4-DIONE

=> s bicyclo(1)octane(1)dione

462341 BICYCLO
84042 OCTANE
526172 DIONE
1 DIONES
526172 DIONE
(DIONE OR DIONES)

L27 1659 BICYCLO(L)OCTANE(L)DIONE

=> s oxazine(1)dione

34764 OXAZINE
526172 DIONE
1 DIONES
526172 DIONE
(DIONE OR DIONES)

L28 4081 OXAZINE(L)DIONE

=> fil caplus,.biotech,wpids,uspatful;s (11 or dimethenamid) and (120 or 121 or 123 or 127 or 128 or bicyclo(1)octane(1)dione or oxazine(1)dione or cyclohexane dione or cyclohexanedione)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	89.52	801.59
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-5.15

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L29 6 FILE CAPLUS
L30 0 FILE BIOSIS
L31 0 FILE MEDLINE
L32 0 FILE EMBASE
'CN' IS NOT A VALID FIELD CODE
'CNS' IS NOT A VALID FIELD CODE
L33 1 FILE WPIDS
L34 8 FILE USPATFULL

TOTAL FOR ALL FILES

L35 15 (L1 OR DIMETHENAMID) AND (L20 OR L21 OR L23 OR L27 OR L28
OR BICYCLO(L) OCTANE(L) DIONE OR OXAZINE(L) DIONE OR CYCLO
HEXANE DIONE OR CYCLOHEXANEDIONE)

=> dup rem 135

PROCESSING COMPLETED FOR L35

L36 14 DUP REM L35 (1 DUPLICATE REMOVED)

=> d cbib abs 1-14

L36 ANSWER 1 OF 14 USPATFULL

1998:19662 Synergistic herbicidal compositions of **dimethenamid**
and sulfonylureas.

Fenderson, John M., Kiowa, KS, United States
O'Neal, William B., Buffalo Grove, IL, United States
Quaghebeur, Theo, Saint-Symphorien, Belgium
Schumm, Karl-Christoph, Campinas, Brazil
Van Loocke, Walter, Meetkerke, Belgium
Sandoz Ltd., Basle, Switzerland (non-U.S. corporation)
US 5721191 980224
APPLICATION: US 95-467367 950606 (8)
DOCUMENT TYPE: Utility.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Co-application of **dimethenamid** with sulfonylurea
herbicides provides improved herbicidal activity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L36 ANSWER 2 OF 14 USPATFULL

1998:14749 Synergistic herbicidal compositions of **dimethenamid**,
sulcotrione, and atrazine.

Fenderson, John M., Kiowa, KS, United States
O'Neal, William B., Buffalo Grove, IL, United States
Quaghebeur, Theo, Saint-Symphorien, Belgium
Schumm, Karl-Christoph, Campinas, Brazil
Van Loocke, Walter, Meetkerke, Belgium
Sandoz Ltd., Basel, Switzerland (non-U.S. corporation)
US 5716901 980210
APPLICATION: US 95-467364 950606 (8)
DOCUMENT TYPE: Utility.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Co-application of **dimethenamid** with other herbicides
provides improved herbicidal activity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L36 ANSWER 3 OF 14 CAPLUS COPYRIGHT 1998 ACS

1997:594605 Document No. 127:216385 Synergistic herbicidal composition
based on glyphosate esters. Riebel, Hans-Jochem; Priesnitz, Uwe;
Wieschollek, Raphael; Dollinger, Markus; Wetcholowsky, Ingo (Bayer
A.-G., Germany; Riebel, Hans-Jochem; Priesnitz, Uwe; Wieschollek,
Raphael; Dollinger, Markus; Wetcholowsky, Ingo). PCT Int. Appl. WO
9731535 A1 970904, 27 pp. DESIGNATED STATES: W: AU, BB, BG, BR,
BY, CA, CN, CZ, HU, IL, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK,
TR, UA, US; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI,
FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG.
(German). CODEN: PIXXD2. APPLICATION: WO 97-EP732 970217.
PRIORITY: DE 96-19607633 960229.

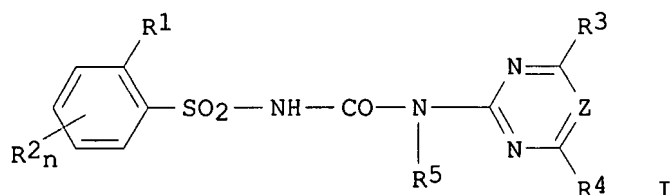
AB A synergistic combination of a glyphosate ester or acid adduct of an

ester, and at least one compd. prior art herbicide, is given. The pure glyphosate ester or acid adduct of an ester is added to spray formulations of the 2nd herbicide.

L36 ANSWER 4 OF 14 CAPLUS COPYRIGHT 1998 ACS

1997:281141 Document No. 126:260438 Synergistic herbicidal mixtures. Landes, Max; Sievernich, Bernd; Walter, Helmut; Westphalen, Karl-Otto; Mayer, Horst; Mulder, Christian; Schoenhammer, Alfons; Hamprecht, Gerhard; Nuyken, Wessel; Kibler, Elmar; Haden, Egon (BASF A.-G., Germany). Ger. Offen. DE 19534910 A1 970327, 42316 pp. (German). CODEN: GWXXBX. APPLICATION: DE 95-19534910 950920.

GI



AB The title mixts. comprise a sulfonylurea deriv. I [R1 = (ub)substituted alkyl, halo, etc.; R2 = H, alkyl, alkenyl, alkynyl, etc.; R3 = F, CF3, CF2Cl, etc.; R4 = alkoxy, alkyl, alkylthio, alkylamino, etc.; R5 = H, alkoxy, alkyl; Z = N or CH; n = 0, 1-3] and any of a large no. of known herbicides, such as buthidazole, cyprazole, allidochlor, benzoylprop-Et, bromobutide, chlorthiamid, dimepiperate, dimethenamide, etc.

L36 ANSWER 5 OF 14 USPATFULL

97:104418 Compositions containing semicarbazones.

Anderson, Richard J., Palo Alto, CA, United States
Cloudsdale, Ian S., Boulder Creek, CA, United States
Lamoreaux, Robert J., San Juan Batista, CA, United States
Schaefer, Kristine, Adel, IA, United States
Harr, Jost, Oberwil, Switzerland
BASF Aktiengesellschaft, Ludwigschafen, Germany, Federal Republic of (non-U.S. corporation)
US 5686387 971111
APPLICATION: US 95-479273 950607 (8)
DOCUMENT TYPE: Utility.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The use of certain herbicidal semicarbazones and salts thereof as potentiators or enhancers of herbicidal and/or plant growth regulating substances.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L36 ANSWER 6 OF 14 USPATFULL

97:101716 Compositions containing semicarbazones.

Anderson, Richard J., Palo Alto, CA, United States
Cloudsdale, Ian S., Boulder Creek, CA, United States
Lamoreaux, Robert J., San Juan Batista, CA, United States
Schaefer, Kristine, Adel, IA, United States
Harr, Jost, Oberwil, Switzerland
BASF Aktiengesellschaft, Ludwigschafen, Germany, Federal Republic of (non-U.S. corporation)
US 5683960 971104

APPLICATION: US 95-472084 950607 (8)

DOCUMENT TYPE: Utility.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The use of certain herbicidal semicarbazones and salts thereof as potentiators or enhancers of herbicidal and/or plant growth regulating substances.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L36 ANSWER 7 OF 14 USPATFULL

97:99244 Compositions containing semicarbazones.

Anderson, Richard J., 3367 Kenneth Dr., Palo Alto, CA, United States 94303

Cloudsdale, Ian S., 730 Rebecca Dr., Boulder Creek, CA, United States 95006

Lamoreaux, Robert J., 145 Lang St., San Juan Batista, CA, United States 94045

Schaefer, Kristine, R.R. 1, Box 160, Adel, IA, United States 50003

Harr, Jost, Vorderbergstrasse 19, CH-4104 Oberwil, Switzerland

US 5681793 971028

APPLICATION: US 95-473832 950607 (8)

DOCUMENT TYPE: Utility.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The use of certain herbicidal semicarbazones and salts thereof as potentiators or enhancers of herbicidal and/or plant growth regulating substances.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L36 ANSWER 8 OF 14 USPATFULL

97:81224 Compositions containing semicarbazones.

Anderson, Richard J., Palo Alto, CA, United States

Cloudsdale, Ian S., Boulder Creek, CA, United States

Lamoreaux, Robert J., San Jaun, CA, United States

Schaefer, Kristine J., Adel, IA, United States

Harr, Jost, Oberwil, Switzerland

Sandoz Ltd., Basel, Switzerland (non-U.S. corporation)

US 5665674 970909

APPLICATION: US 95-479266 950607 (8)

DOCUMENT TYPE: Utility.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The use of certain herbicidal semicarbazones and salts thereof as potentiators or enhancers of herbicidal and/or plant growth regulating substances.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L36 ANSWER 9 OF 14 USPATFULL

97:81223 Potentiating herbicidal compositions.

Anderson, Richard J., 3367 Kenneth Dr., Palo Alto, CA, United States 94303

Cloudsdale, Ian S., 730 Rebecca Dr., Boulder Creek, CA, United States 95006

Lamoreaux, Robert J., 145 Lang St., San Juan Batista, CA, United States 94045

Schaefer, Kristine, R.R. 1, Box 160, Adel, IA, United States 50003

Harr, Jost, Vorderbergstrasse 19 CH-4104, Oberwil, Switzerland

US 5665673 970909

APPLICATION: US 95-400420 950303 (8)

DOCUMENT TYPE: Utility.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The use of certain herbicidal semicarbazones and salts thereof as potentiators or enhancers of herbicidal and/or plant growth regulating substances.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L36 ANSWER 10 OF 14 USPATFULL

97:42837 Herbicidal thiophene ketones.

Tseng, Chi-Ping, Wilmington, DE, United States

E. I. Du Pont de Nemours and Company, Wilmington, DE, United States

(U.S. corporation)

US 5631210 970520

APPLICATION: US 96-665166 960614 (8)

DOCUMENT TYPE: Utility.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds of Formula I and their agriculturally suitable salts are disclosed which are useful for controlling undesired vegetation ##STR1## wherein Q is ##STR2## and R.sup.1 through R.sup.7, m, n, p and q are as defined in the disclosure.

Also disclosed are compositions containing the compounds of Formula I and a method for controlling undesired vegetation which involves contacting the vegetation or its environment with an effective amount of a compound of Formula I.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L36 ANSWER 11 OF 14 CAPLUS COPYRIGHT 1998 ACS

1996:457916 Document No. 125:107777 Herbicidal composition containing phenylphthalimide antidote and method for use of the composition.

Sebestyen, Endre; Balint, Sandor; Henger, Karoly; Pelyva, Jenő;

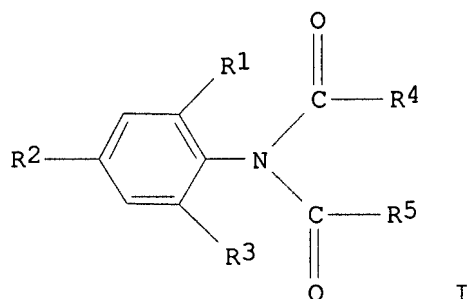
Soptei, Csaba; Nagy, Lajos; Polgar Patinszki Judit; Szabo, Geza;

Szudy, Gabor; et al. (Nitrokemia Rt., Hung.; et al.). PCT Int.

Appl. WO 9615667 A2 960530, 35 pp. DESIGNATED STATES: W: BR, CN, DE, ES, MX, PL, RO, RU, UA, US; RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE. (English). CODEN: PIXXD2.

APPLICATION: WO 95-HU60 951116. PRIORITY: HU 94-9403304 941118.

GI



AB A selective herbicidal compn. comprises an antidote compn. contg. an N-phenylphthalimide deriv. (I), wherein R1, R2 and R3, which are the same or different, are H, halo, C1-4 alkyl or methoxycarbonyl; R4 and R5 together form a 1,2-phenylene, 1-cyclohexen-1,2-ylene or 4-cyclohexen-1,2-ylene group, and .gtoreq.1 herbicide from the following classes: chloroacetanilide, urea, uracil, thiocarbamate, triazine sulfonylurea, n-Ph phthalimide, pyridazinone and